

203 North Golden Circle Drive
Santa Ana, CA 92705
(714) 835-6886
(213) 581-7164
Fax: (714) 667-7147
Telex: 68-3420

Woodward-Clyde Consultants

13 September 1989
Project No. 8941863J

Mr. Richard Grieves
McDonnell Douglas Corporation
10775 Business Center Drive
Cypress, CA 90630

**SUBJECT: MODIFICATION TO THE TASK I WORK PLAN FOR PHASE III OF
THE INVESTIGATION AT TANK CLUSTER 15T-18T AT
DOUGLAS AIRCRAFT COMPANY'S C6 FACILITY**

Dear Mr. Grieves:

Woodward-Clyde Consultants would like to propose a modification to the Task I for Phase III of the investigation at Tanks 15T through 18T at Douglas Aircraft Company's Torrance (C6) facility. Wells WCC 7~~S~~ through 10~~S~~ and WCC-1D, -2, and -3D were scheduled for installation in Task I, with the locations of -6S and 6D and -9S dependent on the analytical results obtained from wells -7S, -8S, -10S, -1D and -3D.

After two rounds of sampling, wells WCC-7S and -8S which were located to identify the lateral extent of the plume, contacted elevated concentrations of organic compounds. In addition water elevation contours indicated that the direction of the ground water gradient may be ~~moved~~ ^{more} to the south that previous data had indicated.

WCC proposes relocating -6S and -9S and installing two additional shallow wells WCC-11~~S~~ AND WCC-12S to estimate the amount of lateral spreading. WCC -6D could be installed in Task II if deemed necessary. We propose installing these wells the week of 18 September 1989.

Please contact the undersigned at (714) 835-6886 if you have questions on this proposal.

Sincerely yours,

WOODWARD-CLYDE CONSULTANTS



Alistaire Callender, Ph.D.
Project Manager

AC/ej
Attachment

(ep.abc.8941863J)

Consulting Engineers, Geologists
and Environmental Scientists

Offices in Other Principal Cities



GROUND WATER ANALYTICAL DATA AT C6 FACILITY
(Concentration in µg/l)

| WELL I.D. | SAMPLE DATE | COMPOUND | | | | | | | | | |
|-----------|-------------|-------------|---------|-----------|-------------|--------|---------------|------------|---------|---------|-------------|
| | | 1,1-DCE | 1,1-DCA | 1,1,1-TCA | TCE | MIBK | trans-1,2-DCE | Chloroform | Toluene | Benzene | cis-1,2-DCE |
| WCC-1 | 03/27/87 | 2,800 | -- | 300 | 4,600 | -- | -- | -- | -- | 85 | -- |
| | 04/13/87* | 3,700/2,500 | --/-- | 260/120 | 5,500/3,600 | --/-- | --/-- | --/-- | --/-- | 110/-- | -- |
| | 11/12/87 | 3,000 | 23 | 160 | 5,200 | -- | 75 | 39 | -- | 160 | -- |
| | 07/13/89 | 900 | <20 | 67 | 2,400 | -- | <20 | <20 | -- | <20 | -- |
| | 08/23/89 | 1,500 | <30 | <30 | 2,800 | -- | <30 | <30 | <30 | <30 | 41 |
| WCC-2 | 11/02/87 | 5 | -- | 5 | 14 | -- | -- | -- | 6 | -- | -- |
| | 11/12/87 | 2 | -- | -- | 4 | -- | -- | -- | 1 | -- | -- |
| | 07/13/89 | <1 | <1 | <1 | 5 | <5 | <1 | <1 | <1 | -- | -- |
| | 08/23/89 | <1 | <1 | <1 | 3 | <5 | <1 | <1 | <1 | <1 | <1 |
| WCC-3 | 11/02/87 | 38,000 | -- | 110,000 | 10,000 | 54,000 | -- | -- | 80,000 | -- | -- |
| | 11/12/87 | 88,000 | 1,000 | 54,000 | 11,000 | 70,000 | 1,000 | -- | 140,000 | -- | -- |
| | 07/13/89 | 18,000 | <500 | 56,000 | 7,700 | <3,000 | 660 | <500 | 32,000 | <500 | -- |
| | 08/23/89 | 56,000 | <1,000 | 78,000 | 6,000 | <5,000 | <1,000 | <1,000 | 56,000 | <1,000 | -- |
| WCC-4 | 11/02/87 | 360 | -- | 14 | 700 | -- | 2 | 2 | -- | -- | -- |
| | 11/12/87 | 1,200 | -- | 35 | 690 | -- | -- | -- | -- | -- | -- |
| | 07/13/89 | 170 | -- | 11 | 270 | -- | -- | -- | -- | -- | -- |
| | 08/23/89 | 360 | <5 | 7 | 410 | <30 | <5 | <5 | <5 | <5 | 15 |
| WCC-5 | 11/30/87 | 7 | -- | -- | 1 | -- | -- | -- | 1 | -- | -- |
| | 01/08/88 | 4 | -- | -- | 10 | -- | -- | -- | -- | -- | -- |
| | 07/13/89* | 3/3 | -- | -- | 13/12 | -- | -- | -- | -- | -- | 6/6 |
| | 08/23/89 | <1 | <1 | <1 | 12 | <5 | <1 | <1 | <1 | <1 | 4 |
| WCC-7 | 07/13/89 | 850 | <30 | 110 | 1,300 | <100 | 11 | -- | -- | -- | 26 |
| | 08/23/89 | 1,100 | <30 | 66 | 1,400 | <100 | <30 | <30 | <30 | <30 | 31 |
| WCC-8 | 07/13/89 | 430 | <5 | 160 | 240 | -- | 9 | <5 | <5 | <5 | 7 |
| | 08/23/89 | 820 | <5 | 130 | 430 | <30 | <5 | <5 | <5 | <5 | 7 |
| WCC-10 | 07/13/89* | 2/1 | -- | -- | 86/87 | -- | -- | 3/3 | -- | -- | -- |
| | 08/23/89 | 4 | <1 | <1 | 81 | <5 | <1 | 4 | <1 | <1 | <1 |
| WCC-1D | 07/25/89 | <1 | <1 | <1 | 2 | <5 | <1 | <1 | 1 | <1 | 1 |
| | 08/23/89 | <1 | <1 | 1 | 2 | <5 | <1 | <1 | <1 | <1 | <1 |
| WCC-3D | 07/25/89 | <1 | <1 | 49 | 4 | <5 | <1 | <1 | 3 | <1 | 11 |
| | 08/23/89 | <10 | <10 | 32 | <10 | <50 | <10 | <10 | <10 | <10 | <10 |

* Duplicate sample also analyzed
-- Not Detected